

Cyanogen Bromide (CNBr) Cleavage

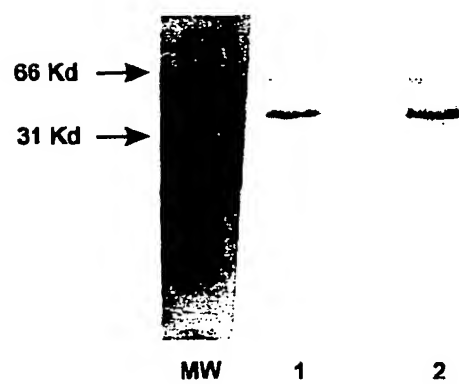


Figure 1

Identification of CA125 sequences in an EST

1 CGTCGACCTGGCTCTAGAAAGTTTAAACACCGAGAGAGTCCTTCAGGGTCTGCTCAGG
 R R P G S R K F N T T E R V L Q G L L R
 61 CCTGTGTTCAAGAACACACAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACCTTGCTC
 P V F K N T S V G P L Y S G C R L T L L
 121 AGGCCCAAGAAAGGATGGGGCAGCCACCAAAAGTGGATGCCATCTGCACCTACCGCCCTGAT
 R P K K D G A A T K V D A I C T Y R P D
 181 CCCAAAAGCCCTGGACTGGACAGAGAGCAGCTATACTGGAGCTGAGCCAGGGTGATGCA
 P K S P G L D R E Q L Y W E L S Q G D A
 241 TGTTCCTCATATCGCAGGTTAGTGTGCTGAAGTTAATTGTGAATAGCACCGAGAGAG
 C S P H I A G * * W * S * L * I A P G E
 301 GGCTGGCGGTGATGGTCCAGACAGGGAGCCTGGAGTTCTCGAGGTGCCAGGTGCATGT
 G W R S W V Q T G S L E F S R L P G A C
 361 C
 - 40kDa Nterm - QHPGSRKFKTTEG
 Peak 68 - FLTVERV LQGL
 Peak 65 - DTYVGGPLY
 Peak 30 - DGAANGVD

Figure 2

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1
1 ERVLQGLLKP LFKSTSVGPL YSGRRTLLR PEKDGAAATGM DAVGLYHPNP 50
2 ERVLQGLLKP LFKSTSVGPL YSGRRTLLR PEKDGAAATGV DATCTLRLLDP
3 ERVLQGLLGP MFKNTSVGLL YSGRRTLLR PEKDGAAATKV DATCTYRPDP
4 ERVLQGLLLRP VFKNTSVGPL YSGRRTLLR PEKDGAAATKV DATCTYRPDP
5 ERVLQGLLSP IFKNSSVGS YSGRRTLLR PEKDGAAATRV DAVQTHRPDP
6 ERVLQGLLKP LFKSTSVGPL YSGRRTLLR PEKDGAAATGV DTICTHRLDP

51
1 KRPGLDREQL YCELSQLTHD ITELGPYSLD RDSLYVNGFT HQNSVPTTST 100
2 TGPGLDRERL YWELSQLTNS VTELGPYTLD RDSLYVNGFT HRSSVPTTST
3 KSPGLDREQL YWELSQLTHS ITELGPYTLD RDSLYVNGFT QRSSVPTTST
4 KSPGLDREQL YWELSQLTHS ITELGPYTLD RDSLYVNGFT QRSSVPTTST
5 KSPGLDRERL YWKLSQLTHG ITELGPYTLD RDSLYVNGFT HQSSMTTTRT
6 LNPGLDREQL YWELSKLTRG ITELGPYLLD RGSLYVNGFS RQSSMTTTRT

101
1 PGTSTVYWAT TGTPSSFPGH TEPGPLLIPF TFNFTITNLH YEENMQHPGS 150
2 PGTSVAVHLET SGTPASLPGH TAPGPLLVPF TLNFTITNLQ YEEDMRHPGS
3 PGTPTVDLGT SGTPVSKPGP SAASPLLIPF TINFTITNLR YEENMGHPGS
4 PGTPTVDLGT SGTPVSKPGP SAASPLLVPF TLNFTITNLQ YEEDMRHPGS
5 PDTSTMHLAT SRTPASLSGP TTASPLLVPF TINFTITNQR YEENMHHPGS
6 PDTSTMHLAT SRTPASLSGP TTASPLLIPF TLNFTITNLQ YEENMGHPGS

151
1 RKFNTTERVL QGLLKPLFKN TSVGPLYSGC RLTSLRPEKH EAATGVDTIC 200
2 RKFNTTERVL QGLLKPLFKS TSVGPLYSGC RLTSLRPEKH EAATGVDTIC
3 RKFNIMERVL QGLLKPLFKN TSVGPLYSGC RLTSLRPEKH EAATGVDTIC
4 RKFNATERVL QGLLSPIFKN SSVGPLYSGC RLTSLRPEKH EAATGVDTIC
5 RKFNTTERVL QGLLRPVFKN TSVGPLYSGC RLTSLRPEKH EAATGVDTIC
6 RKFNIMERVL QGLLNPIFKN SSVGPLYSGC RLTSLRPEKH EAATGVDTIC

201
1 THRVDPIGPG LDRERLYWEL SQLTNSIHEL GPYTLDNRSL YVNGFNPRSS 250
2 THRLDPLNPG LDREQLYWEL SKLTRGIEL GPYLLDRGSL YVNGFTHRNF
3 THRLDPKSPG LNREQLYWEL SKLTNDIEEL GPYTLDNRSL YVNGFTHQSS
4 LYHPNPKRPG LDREQLYWEL SQLTHNITEL GPYSLDRDSL YVNGFTHQSS
5 TYRPDPKSPG LDREQLYWEL SQLTHSITEL GPYTQDRDSL YVNGFTHRSS
6 LYHPNPKRPG LDREQLYWEL SQLTHGIKEL GPYTLDNRSL YVNGFTHRSS

251
1 VPTTSTPGTS TVHLATSGTP SSL..PGHTA PVPLLI~~ 288
2 VPITSTPGTS TVHLGTSETP SSL..PRIV PGPLLIPF
3 VSTTSTPGTS TVDLRTSGTP SSLSSPTIMA AGPLLIPF
4 MTTTRTPDTS TMHLATS RTP ASLSGPT..T ASPLLIPF
5 VPTTSIPGTS AVHLETSGTP ASL..P~~~~ ~~~~~~
6 VAPTSTPGTS TVDLGTSGTP SSL..PSPTT AVPLLIPF

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Figure 3

Our Sequence (95-76)

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ERVLOQPLSP I FKNSSVGPL YSGCRLTSLR PEKDGATGMDA VGLYHPNP
KRPGLDREQL YWELSOLTHN ITELGPYSLD RDSLYVNGFT HQNSVPTTST
PGTSTVYWAT TGTPTSSFFPGH TEPGPLLIPF TLNFTITNLQ YEENMGHPGS
RKFNITERVL QGLLNPIFKN SSVGPLYSGC RLTSXPLKQ GAATGMDAVC
LYHPNPKRPG LDREQLYCEL SQLTHNITEL GPYSLDRDSL YVNGFTHQNS
VPTTSTPGTS TVYWATTGTP SSFPGHTEPG PLLIPFTLNF TITNLQYEED
MRRTGSRKFEN TMERVLOGLL KPLFKSTSVG PLYSGCRLTL LRPEKHCAAT
GVDAICLTRL DPTGPGLDRE RLYWELSOLT NSVTELGPYT LDRDSLYVN
GFTHRSSVPT TSIPGTS AVH LETSGTPASL PGHTAPGPLL VPFTLNFTIT
NLQYEEDMRH PGSRKFNTE RVLQGLLKPL FKSTSVGPLY SGCRLTLIRP
EKGCAATGVD TLCTHRLDPL NPGLDREQLY WELSKLTRGI IELGPYLLDR
GSLYVNGFTH RNFVPIITSTP GTSTVHLGTS ETPSSLPRPI VPGPLLIPF
TLNFTITNLQ YEENMGHPGS RKFNITERVL QGLLKPLFRN SSLEYLYSGC
RLASLRPEKD SSAMAVDAIC THRPDPEDLG LDRERLYWEL SNLTNGIQEL
GPYTLDRNSL YVNGFTHRSS MPTTSTPGTS TVDVGTSGTP SSSPSPTTAG
PLLMPFTLNF TITNLQYEED MRRTGSRKFEN TMESVLOGLL KPLFKNTSVG
PLYSGCRLTL LRPKKDCAT GVDATCTHRL DPKSPGLNRE QLYWELSKLT
NDIEEVGPYT LDRNSLYVNG FTHRSFVAPT STLGTSTVOL GTSGTPSSLP
SPTTGVPLLI PFTLNFTITN LQYEENMGHP GSRKFNIMER VLQGLLSPIF
KNSSVGSLSY GCRITLIRPE KDCAAITVDA VCTHRPDPKS PGLDRERLYW
KLSQLTHGII ELGPYTLDR HSFYVNGFTH QSSMTTTRTP DTSTMHLATS
RTPASLSGPT TASPLLVLFT INFITNORY EENMHHPGSR KFNTERVLQ
GLLRPVFKNT SVGPLYSGC RLTLRPEKKG AATKVDAICT YRPDPKSPGL
DREQLYWELS QLTHSITELG PYTQDRDSL YVNGFTHRSSV PTTSIPGTS
VHLETSGTPA SLP

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Figure 4a

AK024365

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MPLFKNTSVS SLYSGCRLTL LRPEKDCAT RVDAVCTHRP DPKSPGLDRE
RLYWKLSOLT HGIIELGPYT LDRHSFYVNG FTHQSSMTT RTPDSTMHL
ATSRTPASLS GPTTASPLLV LETINFITN QRYEENMHHP GSRKFNTTER
VLQGLLRPVF KNTSVGPLY SGCRLTLRPEK KDCAAITVDA ICTYRPDPKS
PGLDREQLYW ELSQLTHSIT ELGPYTQDRD SLYVNGFTHR SSVPTTSIPG
TSAVHLETSG TPASLPGPSA ASPLLVLFTL NFTITNLRYE ENMHHPGSRK
FNTTERVLQG LLRSLFKSTS VGPLYSGCRL TLIRPEKDGATGVDATCTH
HPDPKSPRLD REQLYWELSQ LTHNITELGH YALDNDLSLV NGFTHRSSVS
TTSTPGTPTV YLGASKTPAS IFGPSAASHL LILFTLNFTI TNLRYEENMW
PGSRKFNTTE RVLQGLLRPL FKNTSVGPLY SGCRLTLRPEKDGATGVD
ATCTHRPDPT GPGLDREQLY LELSOLTHSI TELGPYTLDR DSYVNGFTH
RSSVPTTSTG VVSEEPFTLN FTINNLRMA DMGPGSLKF NITDNVMKHL
LSPLFQRSSL GARYTGRVIALRSVNGAE TRVDLICTYL QPLSGPLPI
KQVFHELSSQ THGITRLGPY SLDKDSLYLN GYNEPGLDEP PTPPKPATTF
LPPLSEATTA MGHYLKTTLT NFTISNLQYS PDMKGSA TF NSTEGLVQHL
LRPLFQKSSM GPFYLGCOLL SLRPEKDCAA TGVDITCTYH PDPVGPGLDI
QQLYWELSOL THGVTQLGFY VLDRLSLFIN GYAPQNL SIR GEYQINFHIV
NWNLSNPDPPT SSEYITLLRD IQDKVTTL YK GSQLHDTFRF CLVTNLTMDS
VLVTVKALFS SNLDPSLVEQ VFLDKTLNAS FHWLGSTYQL VDIHVTEMES
SVYQPTSSSS TQHFYPNFTI TNLPSYQDKA QPGTTNYQRN KRNIEDALNQ
LFRNSSIKSY FSQCQVSTFR SVPNRHHTGV DSLCNFSPLA RRVDRVAIYE
EFLRMTRNGT QLQNF TLD RS SVLVDGYSPN RNEPLTGNSD LPFWAVIFIG
LAGLLGLITC LICGVLV TTR RRKKEGEYNV QQCPGYYS HLDLEDLQ

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Figure 4b

1	50
ERVLOQPLSP IFKNSSVGPL YSG CRITSLR PEKDCGATGM DAVC LYHPNP	
51	100
KRPGLDREQL YWELSOLTHN ITELGPYSLD RDSLYVNGFT HQNSVPTTST	
101	150
PGTSTVYWAT TGTPSSFP GH TEPGPLLIPF TLNFTITNLQ YEENMGHPGS	
151	200
RKFNITERVL QGLLNPIFKN SSVGPLYSG CRITSLR PEKDCGATGM DAVC	
201	250
LYHPNPKRPG LDREQLYCEL SQLTHNITEL GPYSLDRDSL YVNGFTHQNS	
251	300
VPTTSTPGTS TVYWATTGTP SSFPGHTEPG PLLIPFTLNF TITNLQYEED	
301	350
MRRTGSRKFN TMERVLQGLL KPLFKSTSVG PLYSG CRITSLR PEKDCGATGM DAVC	
351	400
GVD IC TLRL DPTGPGLDRE RLYWELSOLT NSVTELGPYT LDRDSLYVNG	
401	450
FTHRSSVPTT SIPGTSAVHL ETSGTPASLP GHTAPGPLL V PFTLNFTITN	
451	500
LQYEEDMRHP GSRKFNTTER VLQGLLKPLF KSTSVGPLYS CRITSLR PEKDCGATGM DAVC	
501	550
KRGATGVD IC THRLDPLN PGLDREQLYW ELSKLTRGII ELGPYLLDRG	
551	600
SLYVNGFTHR NFVPITSTPG TSTVHLGTSE TPSSLPRIV PGPLLIPFTL	
601	650
NFTITNLQYE ENMGHPGSRK FNITERVLQG LLKPLFRNSS LEYLYSG CRITSLR PEKDCGATGM DAVC	
651	700
ASLRPEKDSS AMAVDAIC TH RPDPEDLGLD RERLYWELSN LTNGIQELGP	
701	750
YTLDRNSLYV NGFTHRSSMP TTSTPGTSTV DVGTSGTPSS SPSPTTAGPL	
751	800
LMPFTLNFTI TNLQYEEDMR RTGSRKFNTM ESVLQGLLKP LFKNTSVGPL	
851	900
YSG CRITSLR PEKDCGATGM DAVC THRLDP KSPGLNREQL YWELSKLTND	
951	1000
IEEVGPYTLD RNSLYVNGFT HRSFVAPTST LGTSTVDLGT SGTPSSLPSP	
1001	1050
TTGVPLLIPF TLNFTITNLQ YEENMGHPGS RKFNIMERVL QGLLSPIFKN	
1051	1100
SSVGSLYSG CRITSLR PEKDCGATGM DAVC THRPDPKSPG LDRERLYWKL	
1101	1150
SQLTHGIIEL GPYTLDHRHSF YVNGFTHQSS MTTTRTPDTS TMHLATSRT	
1151	1200
ASLSGPTTAS PLLVLFTINF TITNQRYEEN MHHPGSRKFN TTERVLQGLL	
1201	1250
RPVFKNTSVG PLYSG CRITSLR PEKDCGATGM DAVC TYRP DPKSPGLDRE	
1251	1300
QLYWELSOLT HSITELGPYT QDRDSLYVNG FTHRSSVPTT SIPGTSAVHL	
1301	1350
ETSGTPASLP GPSAASPLL V LFTLNFTITN LRYEENMQHP GSRKFNTTER	
1351	1400
VLQGLLSLF KSTSVGPLYS CRITSLR PEKDCGATGM DAVC THHPDPKS	
1401	1450
PRLDREQLYW ELSQLTHNIT ELGHYALDND SLFVNGFTHR SSVSTTSTPG	
1451	1500
TPTVYLGASK TPASIFGPSA ASHLLILFTL NFTITNLRYE ENMWPGSRKF	
1501	1550

Figure 5a

NTTERVLQGL LRPLFKNTSV GPLYSGSRPT ~~LRPEKDGEA~~ TGVDATGTHR
 1551 1600
 PDPTGPGGLDR EQLYLELSQL THSITELG PY TLDROSLYVN GFTHRSSVPT
 1601 1650
 TSTGVVSEEP FTLNFTINNL RYMADMGQPG SLKFNITDNV MKHLLSPLEFQ
 1651 1700
 RSSLGARYTG ~~CRVIALRSVK~~ ~~NGALTRVDLT~~ CTYLQPLSGP GLPIKQVFHE
 1701 1750
 LSQQTHGITR LGPYSLDKDS LYLNGYNEPG LDEPPTTPKP ATTFLPPLSE
 1751 1800
 ATTAMGYHLK TLTLNFTISN LQYSPDMGKG SATFNSTEGV LQHLLRPLFQ
 1801 1850
 KSSMGPFYLG ~~COLISIRPEK~~ ~~DCAATGVDLT~~ CTYHPDPVGP GLDIQQLYWE
 1851 1900
 LSQETHGVTV LGFYVLDRDS LFINGYAPQN LSIRGEYQIN FHIVNWNLSN
 1901 1950
 PDPTSSEYIT LLRDIQDKVT TLYKGSQ LHD TFRFCLVTNL TMDSVLVTVK
 1951 2000
 ALFSSNLDPS LVEQVFLDKT LNASFHWLGS TYQLVDIHVT EMESSVYQPT
 2001 2050
 SSSSTQHFYP NFTITNLPYS QDKAQPGTTN YQRNKRNIED ALNQLFRNSS
 2051 2100
 IKSIFYSDCQV STFRSVPNRH HTGVDSL CNF SPLARRVDRV AIYEEFLRMT
 2101 2150
 RGTQLQNFT LDRSSVLVDG YSPNRNEPLT GNSDLPFWAV IFIGLAGLLG
 2151 2192
 LITCLICGVL VTTRRRKKEG EYNVQQQCPG YYQSHLDLED LQ

Figure 5a (cont)

1 GAGAGGGTTC TGCAGGGTCC GCTTAGTCCC ATATTCAAGA ACTCCAGTGT
 51 TGGCCCTCTG TACTCTGGCT GCAGACTGAC CTCTCTCAGG CCCGAGAAGG
 101 ATGGGGCAGC AACTGGAATG GATGCTGTCT GCCTCTACCA CCCTAATCCC
 151 AAAAGACCTG GGCTGGACAG AGAGCAGCTG TACTGGGAGC TAAGCCAGCT
 201 GACCCACAAC ATCACTGAGC TGGGCCCTTA CAGCCTGGAC AGGGACAGTC
 251 TCTATGTCAA TGGTTTCACC CATCAGAACT CTGTGCCCAC CACCAGTACT
 301 CCTGGGACCT CCACAGTGTA CTGGGCAACC ACTGGGACTC CATCCTCCTT
 351 CCCCGGCCAC ACAGAGCCTG GCCCTCTCCT GATACCATTG ACGCTCAACT
 401 TCACCATCAC TAACCTACAG TATGAGGAGA ACATGGGTCA CCCTGGCTCC
 451 AGGAAGTTCA ACATCACGGA GAGGGTCTG CAGGGTCTGC TTAATCCCAT
 501 TTTCAAGAAC TCCAGTGTTG GCCCTCTGTA CTCTGGCTGC AGACTGACCT
 551 CTCTCAGGCC CGAGAAGGAT GGGGCAGCAA CTGGAATGGA TGCTGTCTGC
 601 CTCTACCACC CTAATCCCAA AAGACCTGGG CTGGACAGAG AGCAGCTGTA
 651 CTGCGAGCTA AGCCAGCTGA CCCACAACAT CACTGAGCTG GGCCCCTACA
 701 GCTTGACAGG GGACAGTCTT TATGTCAATG GTTTCACCCA TCAGAACTCT
 751 GTGCCCACCA CCAGTACTCC TGGGACCTCC ACAGTGTA CTGGCAACCAC
 801 TGGGACTCCA TCCTCCTTCC CCGGCCACAC AGAGCCTGGC CCTCTCCTGA
 851 TACCATTAC CCTCAACTTC ACCATCACCA ACCTGCAGTA CGAGGAGGAC
 901 ATGCGTCGCA CTGGCTCCAG GAAGTTCAAC ACCATGGAGA GGGTTCTGCA
 951 GGGTCTGCTC AAGCCCTTGT TCAAGAGCAC CAGCGTTGGC CCTCTGTACT
 1001 CTGGCTGCAG ACTGACCTTG CTCAGACCTG AGAAACATGG GGCAGCCACT
 1051 GGAGTGGACG CCATCTGCAC CCTCCGCCTT GATCCCACTG GTCCTGGACT
 1101 GGACAGAGAG CGGCTATACT GGGAGCTGAG CCAGCTGACC AACAGCGTTA
 1151 CAGAGCTGGG CCCCTACACC CTGGACAGGG ACAGTCTCTA TGTCAATGGC
 1201 TTCACCCATC GGAGCTCTGT GCCAACCACC AGTATTCCTG GGACCTCTGC
 1251 AGTGACACTG GAAACCTCTG GGAATCCAGC CTCCCTCCCT GGCCACACAG
 1301 CCCCTGGCCC TCTCCTGGTG CCATTCACCC TCAACTTCAC TATCACCAAC
 1351 CTGCAGTATG AGGAGGACAT GCGTCACCTT GGTTCAGGA AGTTCAACAC
 1401 CACGGAGAGA GTCCTGCAGG GTCTGCTCAA GCCCTTGTTT AAGAGCACCA

Figure 5b

1451 GTGTTGGCCC TCTGTACTCT GGCTGCAGAC TGACCTTGCT CAGGCCTGAA
1501 AAACGTGGGG CAGCCACCGG CGTGGACACC ATCTGCACTC ACCGCCTTGA
1551 CCCTCTAAAC CCTGGACTGG ACAGAGAGCA GCTATACTGG GAGCTGAGCA
1601 AACTGACCCG TGGCATCATC GAGCTGGGCC CCTACCTCCT GGACAGAGGC
1651 AGTCTCTATG TCAATGGTTT CACCCATCGG AACTTTGTGC CCATCACCAG
1701 CACTCCTGGG ACCTCCACAG TACACCTAGG AACCTCTGAA ACTCCATCCT
1751 CCCTACCTAG ACCCATAGTG CCTGGCCCTC TCCTGATACC ATTCACACTC
1801 AACTTCACCA TCACTAACCT ACAGTATGAG GAGAACATGG GTCACCCTGG
1851 CTCCAGGAAG TTCAACATCA CGGAGAGGGT TCTGCAGGGT CTGCTCAAAC
1901 CCTTGTTTCA GAATAGCAGT CTGGAATACC TCTATTGAGG CTGCAGACTA
1951 ACCTCACTCA GGCCAGAGAA GGATAGCTCA ACCATGGCAG TGGATGCCAT
2001 CTGCACACAT CGCCCTGACC CTGAAGACCT CGGACTGGAC AGAGAGCGAC
2051 TGTACTGGGA GCTGAGCAAT CTGACAAATG GCATCCAGGA GCTGGGCCCC
2101 TACACCCTGG ACCGGAACAG TCTCTATGTC AATGGTTTCA CCCATCGAAG
2151 CTCTATGCCC ACCACCAGCA CTCCTGGGAC CTCCACAGTG GATGTGGGAA
2201 CCTCAGGGAC TCCATCCTCC AGCCCCAGCC CCACGACTGC TGGCCCTCTC
2251 CTGATGCCGT TCACCCTCAA CTTACCATC ACCAACCTGC AGTACGAGGA
2301 GGACATGCGT CGCACTGGCT CCAGGAAGTT CAACACCATG GAGAGTGTCC
2351 TGCAGGGTCT GCTCAAGCCC TTGTTCAAGA ACACCAGTGT TGGCCCTCTG
2401 TACTCTGGCT GCAGATTGAC CTTGCTCAGG CCCAAGAAAG ATGGGGCAGC
2451 CACTGGAGTG GATGCCATCT GCACCCACCG CCTTGACCCC AAAAGCCCTG
2501 GACTCAACAG GGAGCAGCTG TACTGGGAGT TAAGCAAACCT GACCAATGAC
2551 ATTGAAGAGG TGGGCCCCCTA CACCTTGGAC AGGAACAGTC TCTATGTCAA
2601 TGGTTTCACC CATCGGAGCT TTGTGGCCCC CACCAGCACT CTTGGGACCT
2651 CCACAGTGGA CCTTGGGACC TCAGGGACTC CATCCTCCCT CCCCAGCCCC
2701 ACAACAGGTG TTCCTCTCCT GATACCATTC AACTCAACT TCACCATCAC
2751 TAACCTACAG TATGAGGAGA ACATGGGTCA CCCTGGCTCC AGGAAGTTCA
2801 ACATCATGGA GAGGGTTCTG CAGGGTCTGC TTATGCCCTT GTTCAAGAAC

Figure 5b (cont)

2851 ACCAGTGTCA GCTCTCTGTA CTCTGGTTGC AGACTGACCT TGCTCAGGCC
2901 TGAGAAGGAT GGGGCAGCCA CCAGAGTGGT TGCTGTCTGC ACCCATCGTC
2951 CTGACCCCAA AAGCCCTGGA CTGGACAGAG AGCGGCTGTA CTGGAAGCTG
3001 AGCCAGCTGA CCCACGGCAT CACTGAGCTG GGCCCTACA CCCTGGACAG
3051 GCACAGTCTC TATGTCAATG GTTTCACCCA TCAGAGCTCT ATGACGACCA
3101 CCAGAACTCC TGATACCTCC ACAATGCACC TGGCAACCTC GAGAACTCCA
3151 GCCTCCCTGT CTGGACCTAC GACCGCCAGC CCTCTCCTGA TACCATTAC
3201 AATTAACTTC ACCATCACTA ACCTGCGGTA TGAGGAGAAC ATGCATCACC
3251 CTGGCTCTAG AAAGTTTAAC ACCACGGAGA GAGTCCTTCA GGGTCTGCTC
3301 AGGCCTGTGT TCAAGAACAC CAGTGTGGC CCTCTGTACT CTGGCTGCAG
3351 ACTGACCTTG CTCAGGCCCA AGAAGGATGG GGCAGCCACC AAAGTGGATG
3401 CCATCTGCAC CTACCGCCCT GATCCCAAAA GCCCTGGACT GGACAGAGAG
3451 CAGCTATACT GGGAGCTGAG CCAGCTAACC CACAGCATCA CTGAGCTGGG
3501 CCCCTACACC CTGGACAGGG ACAGTCTCTA TGTCAATGGT TTCACACAGC
3551 GGAGCTCTGT GCCCACCCT AGCATTCTTG GGACCCCCAC AGTGGACCTG
3601 GGAACATCTG GGACTCCAGT TTCTAAACCT GGTCCCTCGG CTGCCAGCCC
3651 TCTCCTGGTG CTATTCATC TCAACTTCAC CATCACC AAC CTGCGGTATG
3701 AGGAGAACAT GCAGCACCTT GGCTCCAGGA AGTTCAACAC CACGGAGAGG
3751 GTCCTTCAGG GCCTGCTCAG GTCCCTGTTC AAGAGCACCA GTGTTGGCCC
3801 TCTGTACTCT GGCTGCAGAC TGACTTTGCT CAGGCCTGAA AAGGATGGGA
3851 CAGCCACTGG AGTGGATGCC ATCTGCACCC ACCACCCTGA CCCC AAAAGC
3901 CCTAGGCTGG ACAGAGAGCA GCTGTATTGG GAGCTGAGCC AGCTGACCCA
3951 CAATATCACT GAGCTGGGCC ACTATGCCCT GGACAACGAC AGCCTCTTTG
4001 TCAATGGTTT CACTCATCGG AGCTCTGTGT CCACCACCAG CACTCCTGGG
4051 ACCCCCACAG TGTATCTGGG AGCATCTAAG ACTCCAGCCT CGATATTTGG
4101 CCCTTCAGCT GCCAGCCATC TCCTGATACT ATTCACCCTC AACTTCACCA
4151 TCACTAACCT GCGGTATGAG GAGAACATGT GGCCTGGCTC CAGGAAGTTC
4201 AACACTACAG AGAGGGTCCT TCAGGGCCTG CTAAGGCCCT TGTTCAAGAA
4251 CACCAGTGTT GGCCCTCTGT ACTCTGGCTC CAGGCTGACC TTGCTCAGGC

Figure 5b (cont)

4301 CAGAGAAAGA TGGGGAAGCC ACCGGAGTGG ATGCCATCTG CACCCACCGC
 4351 CCTGACCCCA CAGGCCCTGG GCTGGACAGA GAGCAGCTGT ATTTGGAGCT
 4401 GAGCCAGCTG ACCCACAGCA TCACTGAGCT GGGCCCCTAC AACTGGACA
 4451 GGGACAGTCT CTATGTCAAT GGTTCACCC ATCGGAGCTC TGTACCCACC
 4501 ACCAGCACCG GGGTGGTCAG CGAGGAGCCA TTCACACTGA ACTTCACCAT
 4551 CAACAACCTG CGCTACATGG CGGACATGGG CCAACCCGGC TCCCTCAAGT
 4601 TCAACATCAC AGACAACGTC ATGAAGCACC TGCTCAGTCC TTTGTTCCAG
 4651 AGGAGCAGCC TGGGTGCACG GTACACAGGC TGCAGGGTCA TCGCACTAAG
 4701 GTCTGTGAAG AACGGTGCTG AGACACGGGT GGACCTCCTC TGCACCTACC
 4751 TGCAGCCCCT CAGCGGCCCA GGTCTGCCTA TCAAGCAGGT GTTCCATGAG
 4801 CTGAGCCAGC AGACCCATGG CATCACCCGG CTGGGCCCCT ACTCTCTGGA
 4851 CAAAGACAGC CTCTACCTTA ACGGTTACAA TGAACCTGGT CTAGATGAGC
 4901 CTCCTACAAC TCCCAAGCCA GCCACCACAT TCCTGCCTCC TCTGTCAGAA
 4951 GCCACAACAG CCATGGGGTA CCACCTGAAG ACCCTCACAC TCAACTTCAC
 5001 CATCTCCAAT CTCCAGTATT CACCAGATAT GGGCAAGGGC TCAGCTACAT
 5051 TCAACTCCAC CGAGGGGGTC CTTCAGCACC TGCTCAGACC CTTGTTCCAG
 5101 AAGAGCAGCA TGGGCCCCCTT CTACTTGGGT TGCCAACTGA TCTCCCTCAG
 5151 GCCTGAGAAG GATGGGGCAG CCACTGGTGT GGACACCACC TGCACCTACC
 5201 ACCCTGACCC TGTGGGCCCC GGGCTGGACA TACAGCAGCT TTACTGGGAG
 5251 CTGAGTCAGC TGACCCATGG TGTACCCAA CTGGGCTTCT ATGTCCTGGA
 5301 CAGGGATAGC CTCTTCATCA ATGGCTATGC ACCCCAGAAT TTATCAATCC
 5351 GGGGCGAGTA CCAGATAAAT TTCCACATTG TCAACTGGAA CCTCAGTAAT
 5401 CCAGACCCCA CATCCTCAGA GTACATCACC CTGCTGAGGG ACATCCAGGA
 5451 CAAGGTCACC AACTCTACA AAGGCAGTCA ACTACATGAC ACATTCCGCT
 5501 TCTGCCTGGT CACCAACTTG ACGATGGACT CCGTGTGGT CACTGTCAAG
 5551 GCATTGTTCT CCTCCAATTT GGACCCAGC CTGGTGGAGC AAGTCTTTCT
 5601 AGATAAGACC CTGAATGCCCT CATTCCATTG GCTGGGCTCC ACCTACCAGT
 5651 TGGTGGACAT CCATGTGACA GAAATGGAGT CATCAGTTTA TCAACCAACA

Figure 5b (cont)

5701 AGCAGCTCCA GCACCCAGCA CTTCTACCCG AATTTCACCA TCACCAACCT
 5751 ACCATATTCC CAGGACAAAG CCCAGCCAGG CACCACCAAT TACCAGAGGA
 5801 ACAAAGGAA TATTGAGGAT GCGCTCAACC AACTCTTCG AACAGCAGC
 5851 ATCAAGAGTT ATTTTCTGA CTGTCAAGTT TCAACATTCA GGTCTGTCCC
 5901 CAACAGGCAC CACACCGGG TGGACTCCCT GTGTAACCTC TCGCCACTGG
 5951 CTCGGAGAGT AGACAGAGTT GCCATCTATG AGGAATTTCT GCGGATGACC
 6001 CGGAATGGTA CCCAGCTGCA GAACTTCACC CTGGACAGGA GCAGTGTCTT
 6051 TGTGGATGGG TATTCTCCCA ACAGAAATGA GCCCTTAACT GGAATTCTG
 6101 ACCTTCCCTT CTGGGCTGTC ATCTTCATCG GCTTGGCAGG ACTCCTGGGA
 6151 CTCATCACAT GCCTGATCTG CGGTGTCCTG GTGACCACCC GCCGGCGGAA
 6201 GAAGGAAGGA GAATACAACG TCCAGCAACA GTGCCCAGGC TACTACCAGT
 6251 CACACCTAGA CCTGGAGGAT CTGCAATGAC TGGAACCTGC CGGTGCCTGG
 6301 GGTGCCTTTC CCCAGCCAG GGTCCAAAGA AGCTTGGCTG GGGCAGAAAT
 6351 AAACCATATT GGTCG

Figure 5b (cont)

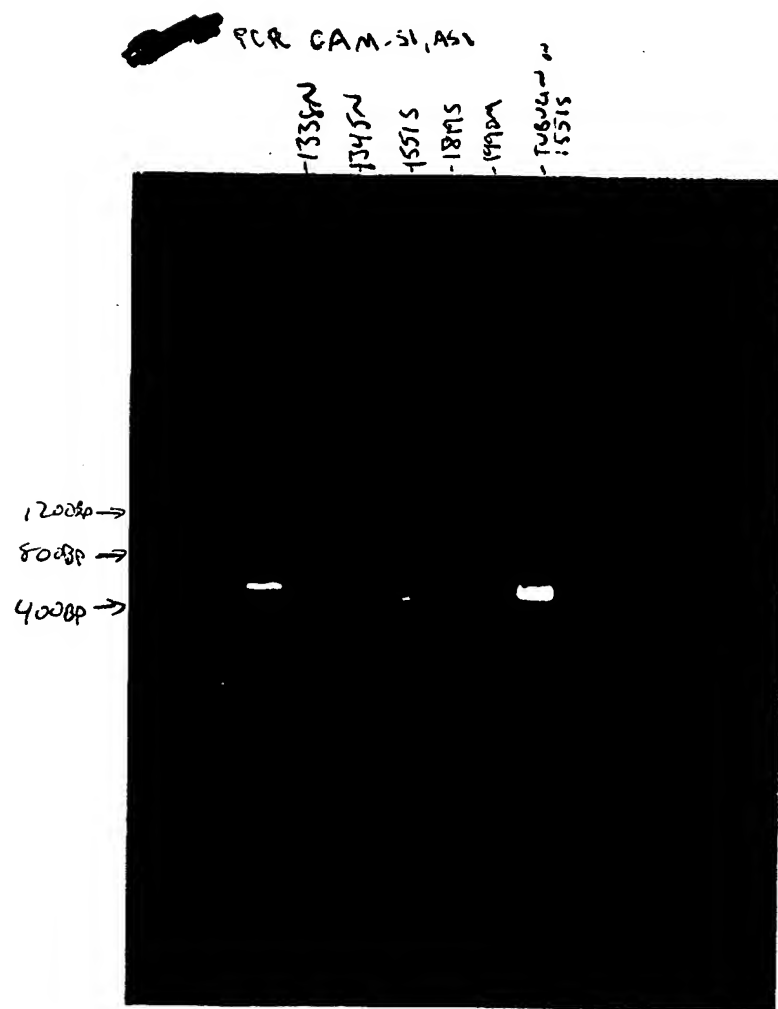


Figure 6

Structure of the CA125 molecule

Twelve or more glycosylated repeat elements 160 amino acids each

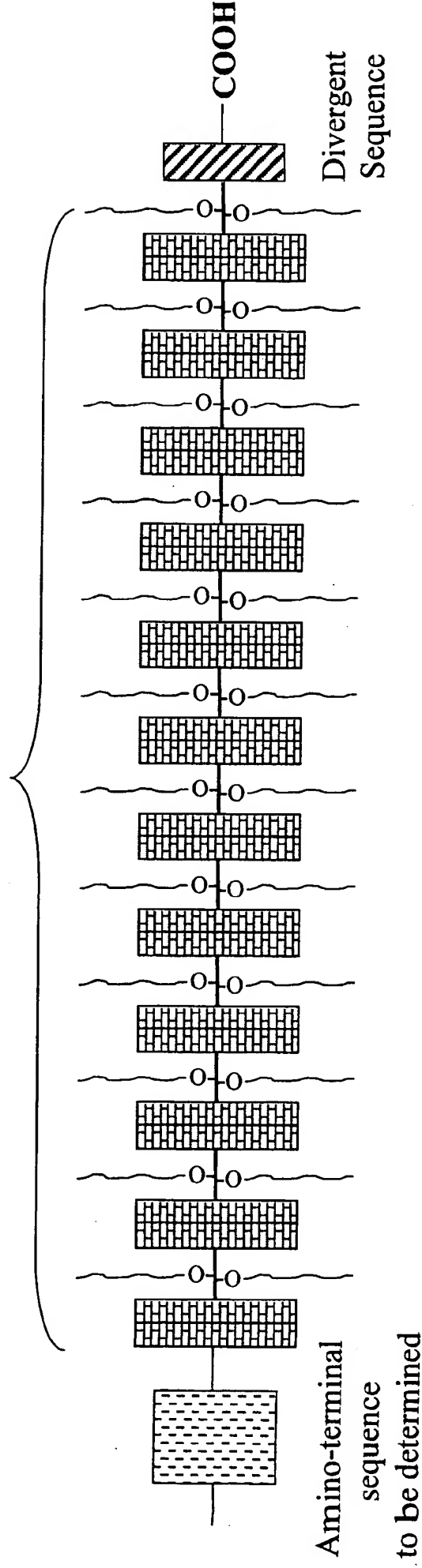


Figure 7

Hypothetical Structure of the CA125 40 kDa Repeat Sequence

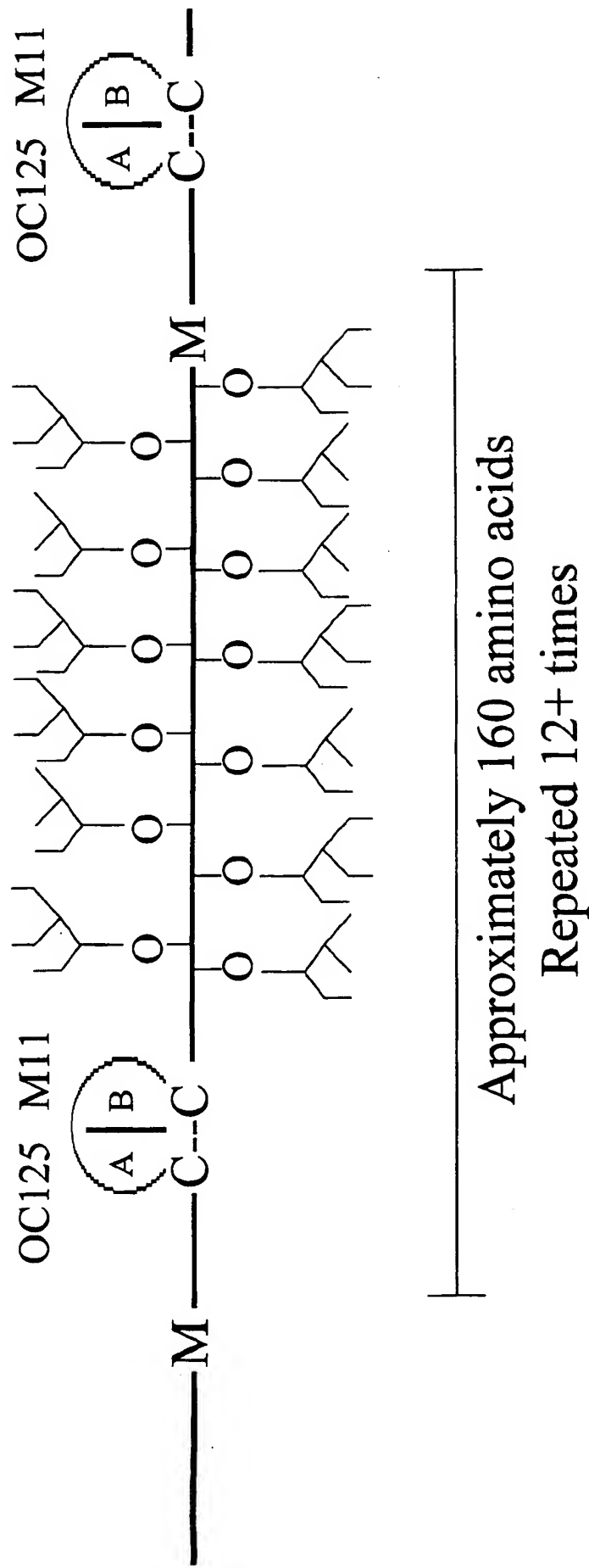


Figure 8